

E-PCB Plan

### UNION CARBIDE CORPORATION P.O. BOX 180, SISTERSVILLE, WEST VIRGINIA 26175 Specialty Chemicals Division

SILICONES PLANT

June 28, 1989

MEMORANDUM TO: R. L. Foster

E. D. Southard

RECEIVED

COPIES TO: W. C. Nycz

L. W. Phair

P. D. Shingleton R. E. Tuttle

File

JUN 3 0 1989

R. E. TUME

SUBJECT: 1988 PCB Annual Report

Enclosed is the PCB Annual Report for 1988.

A copy of the report will be placed in the Location Environmental Inventory and the SPCC plan located at Building 321 of the Environmental Protection Department.

As of 6/27/89, there are 33 PCB capacitors in service and no PCB transformers or PCB heat transfer fluids in service or in storage at Sistersville.

The in service PCB capacitors will remain in operation until routine replacement with non PCB capacitors, at the end of the normal operating life

Please contact me if you have any questions. I can be reached at Unicom 8-731-1286.

JGO:slc 3039A attachment 1988

ANNUAL PCB REPORT

UNION CARBIDE CORPORATION SISTERSVILLE, WV

# PCB ANNUAL TYVENTORY LIQUID FILLED POWER CAPACITORS

10.	IN-SERVICE LOCATION SUD B	ESTIMATED LIQUID VOLUME (GAL)	PCB*	DATE REMOVED FROM SERVICE	DATE STORED	STORAGE LOCATION	DATE TRANSPORTED FOR DISPOSAL	DISPOSAL FACTLITY	COMMENTS	
•	NE Wall	3.1	17.6							
	н	89	11		•					
	fl .	· 11	\$1						;	*
	Ħ	11	11				•			
	Comp Bldg. 42 MCC	11	11							
	11	11	11						•	
	Steam Plant C-117E	11	11	1/82	1/82	Paden City	12/6/82	ENSCO	(1),(2)	<del></del>
'	11 1	11	II	11 '	11	11	1)	11	11 .	<u></u>
	Starter E	11 .	0 .	10/2/85	10/2/85	Sistersvil	e 10/1/86	CHEM WSTE	(4)	
	ft	11	11	ıı ·	11	11-	. 11	18	II .	
	11 .	11	11	11	11	ti	ti	11	11 .	
	tt	tt	11	ii ii	11	11	11	11	Ů :	<del></del>
	Sub A MCC	11, .	11							
	l1	11	11	` •	,					
	11	. 11	11		,					
	Sub E1	10.0	56.8	9/16/86	9/16/86	Sistersville	8/13/87	UNISON ·	(5)	
	11	н	, tt	11	t f	11,	8/13/87	UNISON	(5)	
	Sub E1 & E2	3.1	17.6	5/3/88	5/3/88	Sistersvill	10/26/88	Ensco	(2)	-
	11	11	19	5/3/88	5/3/88	Sistersvill	10/26/88	Ensco	(2).	
	11	' 11	II	5/3/88	5/3/88	Sistersvill	10/26/88	Ensco	(2)	

ing a density of 5.675 Kg/Cal (12.5 lbs/gal) for pure PCB.

- NTS: (1) Paden City, W.V. Storage Site Owned by Ma-Reb:Corp.

  (2) Energy Systems Company (ENSCO) Disposal Facility Located in El Dorado, Ark.

  (3) Institute, W.V. Storage Site Owned and Operated by Union Carbide Corp.

  (4) Chemical Waste Managment Disposal Facility Located in Emelle, Al

  (5) UNISON Charlotte, N.C. 28224

## PCB ANNUAL TOVENTORY LIQUID FILLED POWER CAPACITORS

YEAR	1988	•

NO.	IN-SERVICE LOCATION	ESTIMATED LIQUID VOLUME (GAL)	PCB*	DATE REMOVED FROM SERVICE	DATE STORED	STORAGE	DATE TRANSPORTED FOR DISPOSAL	DISPOSAL FACILITY	· ·	COMMENTS
1	Sub E1 & E2	3.1	17.6	5/3/88	5/3/88	Sistersvill	10/26/88	Ensco	(2)	
2	11	. 11	tt	5/10/88	5/10/88	Sistersvill	: 10/26/88	Ensco	(2)	
3	11	11	11	5/10/88	5/10/88	Sistersvill	10/26/88	Ensco	(2)	• •
4	11	11	11	5/10/88	5/10/88	Sistersvill	10/26/88	Ensco	(2)	
5	** ,	11	11	5/10/88	5/10/88	Sistersvill	10/26/88	Ensco	(2)	
5	и '	11	11	5/11/88	5/11/88	Sistersvill	10/26/88	Ensco	(2)	
1	71	11	81	5/11/88		Sistersville		Ensco	(2)	
3	11	11	l)	5/11/88		Sistersville		Ensco	(2)	
}	11	. 11	Ħ	5/11/88	·	Sistersvill		Ensco	· (2)	*
)	Poly I Tank	, H	11	12/26/85		Sistersvil		CHEM WSTE	(4)	_
	17	11	11	· ti	11	11	11	11	Ц	,
>	11	11	11		11	EI .	31	. 11	II.	
}	11	11	".	11	"	11	11	11	" II	
1	H	11	Ħ	ff '	. 11	11	. 11	. 11	. 11	•
5	17	11	, 11	ft ft	11	11	11	11	, 11	•
;	Sub G MCC	. 11.	11	5/3/88	5/3/88	Sistėrsville	9/22/88	Enisco	(2)	
,	111	11	· 11	5/3/88		Sistersville		Ensco .	(2)	· · · · · · · · · · · · · · · · · · ·
1	Sub B MCC	11	11		,				, (2)	
	11	. 11	, II		•					
)	11	- 11	11				٠,		•	
-	_	<del> </del>						Ii		

Ising a density of 5.675 Kg/Cal (12.5 lbs/gal) for pure PCB.

ENTS: (1) Paden City, W.V. Storage Site - Owned by Ma-Reb Corp.

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(4) Chemical Waste Managment Disposal Facility - Located in Emelle, Al

(5) UNISON - Charlotte, N.C. 20224

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## PCB ANNUAL TNVENTORY LIQUID FILLED P. .. LR CAPACITORS

VEAD	1000	•	•
ICAN	1988		

G NO.	IN-SERVICE LOCATION	ESTIMATED LIQUID VOLUME (GAL)	PCB*	DATE REMOVED FROM SERVICE	DATE STORED	STORAGE LOCATION	DATE TRANSPORTED FOR DISPOSAL	DISPOSAL FACILITY	COMMENTS
41	Sub B MCC	3.1	17.6	·				٠.	
12	11	11	11					·	
13	Ħ	ti	11	,					
44	i.	81	11						
45	11	11	11						-
46	\$1	ti	11					,	
47	Ħ	11	11		•				
48	<b>!</b> !	11	tt						
19	11	ŧr	11						
50	ŧI ,	11	11				,		
51	U	ŧı	12						, .
52	11	11	11						
53	Small Scale (SSP)	ŧr	11	11/22/86	11/22/86	Sistersvill	e 8/13/87	UNISON	(5)
54	Sub D MCC	1!	11					٠.	
55	11	(1	. 11					•	
56	. 11	, , H	ŧŧ	2/11/86	2/11/86	Sistersvill	e 10/1/86	CHEM WSTE	(4)
57	11	. 11	11						
58	Basement Bldg. 1	ุท .	11	2/4/87	2/4/87	Sistersvill	e 8/13/87·	UNISON	(5)
59	11	11	11	2/4/87	2/4/87	Sistersvill		UNISON	(5)
50	11	ft	H s	2/4/87	2/4/87	Sistersvill		UNISON	(5)

\*Using a density of 5.675 Kg/Gal (12.5 1bs/gal) for pure PCB.

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  (4) Chemical Waste Managment Disposal Facility Located in Emelle, Al

  - (5) UNISON Charlotte, N.C. 28224

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g no.	IN-SERVICE LOCATION	ESTIMATED LIQUID VOLUME (GAL)	PCB*	DATE REMOVED FROM SERVICE	DATE STORED	. STORAGE LOCATION	DATE TRANSPORTED FOR DISPOSAL	DISPOSAL FACILITY	COMMENTS	¥
61	Basement Bldg. 1	3.1	17.6	2/4/87	2/4/87	Sistersvill	e 8/13/87	UNISON	(5)	
62	18	11 '	11	5/80	5/80	Paden City	12/6/82	ENSCO	(1), (2)	
63	18	Ħ	11	11	11	11	ŧi .	11	11	
54	11	11	11	11	11	11	11	11	н '	
55	· <b>11</b>	11	11	11		11	<b>91</b>	11	11	
56	11	Ħ	11	11	11	11	11	11	11	<u> </u>
57	11	11 ,	Ħ	."	. 11	11	81	11 .	11	
58	11	11	18	11	11	t)	11	1)	li .	-
59	· 11	11	11		91	ti .	81	11	· · · · · .	<del>  </del>
70	. 11	ti	11	tt ·	11	ti	11	11	11	<del> </del>
71	t1	11	11	11	11	11	ŧt .	11 .	· 11	
72	71	11	t)	11/6/78	11/7/78	Institute	11/8/79	Chem Waste	(3), (4)	<del></del>
73	ţ1	11	tı .	Ħ	1 H	{I	11	Ħ	11	Harden Street
74	19	11	tt	<b>11</b> ·	11	11	11	11	. 11	
75	11	11	. 11	5/80	5/80	Paden City	12/6/82	ENSCO	·(1), (2)	
76	01d 42 MCC	11	11			•				,
77	11	11	11							-
78	11	11	11	3/6/79	3/7/79	Institute	11/8/79	Chem Waste Momt	(3), (4)	
79	11	11	11	91	11	Paden City	12/6/82	ENSCO	(1),(2)	
30	11	√n	11	H	11	11	11	11	. 11	-

Using a density of 5.675 Kg/Gal (2.5 lbs/gal) for pure PCB.

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## PCB ANNUAL THVENTORY LIQUID FILLED POWER CAPACITORS

G NO.	IN-SERVICE LOCATION	ESTIMATED LIQUID VOLUME . (GAL)	PCB*	DATE REMOVED FROM SERVICE	DATE STORED	STORAGE LOCATION	DATE TRANSPORTED FOR DISPOSAL	DISPOSAL FACILITY	COMMENTS
81	01d 42 MCC	3.1	17.6	3/6/79	3/7/79	Paden City	12/6/82	ENSCO	(1). (2)
82	95 ·	11	11	11	11	11	ti ti	11	11
83	ft .	11	11	11	11	<b>81</b>	17	11	14
34	1)	11	n	11	†I	11	Ħ	11	***
35·	11	Ħ	11	11	11	11	11	11	#1
36	11	11	11	Ħ	11	11	1)	11	11
37	11	· 11	tı	lt	11	\$1	FF FF	11	11 ,
38	ti	11	11	11	11	11	11	11	11
39	11	11	11	11	11	11	11	17	11
90	11	11	31	ti ·	11	l1	11	11	11
31	*6	11	11	TI .	11	11	. n	11	11
32	11	· 11	11	. 11	11	11	ti '	п	ň
93	11	11	11	11	н	11	11	n	11
94	11	11	11	11 ·	11	. 11	11	. 11"	11
95	Bldg. 33	11	. 11	10/8/87	10/8/87	Sistersvill	9/22/88	Ensco	(2)
96	Sub B Bank B3A	; 11	11	•		•	.:		
17	11	11	. 11						
18	Sub B Bank B3B	lt .	11	,	•				
19	tı	11	11			·			

Using a density of 5.675 Kg/Cal (2.5 lbs/gal) for pure PCB.

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_NO.	IN-SERVICE LOCATION	ESTIMATED LIQUID VOLUME (GAL)	PCB*	DATE REMOVED FROM SERVICE	DATE STORED	STORAGE LOCATION	DATE TRANSPORTED FOR DISPOSAL	DISPOSAL FACILITY	COMMENTS
5	Sub 32-H-1	630	0.4	11/15/84	N/A	N/A	See ( )	See (1)	PCB content = 111 ppm
<u></u>									(6/14/84 Retest)
					,t		·		
•				•		_			
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-							·		
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Photograph Control									
*					·				

Ising a density of 5.675 Kg/Gal (12.5 lbs/gal) for dielectric fluid. Kg PCB = (Gal)(5.675)(PPM)

Transformer 25 sold to Electric Equipment Company (Rochester, NY) on 10/29/84 for conversion to a non-PCB transformer. Shipped on 11/15/84.

1	1							•			
TERIAL	HOW GENERATED	TOTAL WEIGHT OF WASTE (LBS)	PCB* (KG)	DATE GENE	Waste Erated	DATE	STORAGE LOCATION	DATE TRANSPORTED FOR DISPOSAL	DISPOSAL FACILITY	COMMENTS	
luids	Retrofittin of Small Scale	<sup>3</sup> 1072	0.21	3/6/8	35-5/8/85	3/6/85 <b>-</b> 5/8/85	Sistersvil	e 5/18/85	Rollins Env. Ser.	(1)(2)	-
									(TX)		
₃ulatio	n Production Heat Transfer System	278	0.05	3/6/8	8 <b>5-</b> 5/8/85	3/6/85 <b>-</b> 5/8/85	Sistersvil	e 5/18/85	11	11 11	
erminol	System										
erminol 00		13802	1.19		11	11	11	11	- 11	11 14	
										•	
							•				
		4									
**************************************											
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										•	
electronic III The American School	<u> </u>									•	
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\*Using a density of 3.76 Kg/Cal (8.29 lbs/gal) for Therminol 60. Kg PCB =  $\frac{\text{(Gal)(3.76)(190 ppm)}}{10^6}$ 

# PCB ANNUAL INVESTORY LIQUID FILLED POWER CAPACITORS

	· ·	Quantity	×	PCB's (Kg Each)	PCB's = (Kg Total)
1.	Capacitors in Service on 12/31/88	<u>33</u>		17.6	580.8
2.	Capacitors Removed from Service and Placed in Storage in 1988	14		<b>-</b>	264.24
3.	Capacitors in Storage from Previous Year on 1/1/88	1		<b>-</b>	17.6
4.	Capacitors Transported from Storage to Disposal in 1988	15		<u>-</u>	264.0
5.	Capacitors in Storage on 12/31/88 (2+3-4)	<b>0</b>	· .	-	0
6.	Capacitors Transported to Disposal in Previous Years	51	•	17.6	897.6.
		4 <del>-</del>			
Tota	al of 1 + 4 + 5 + 6	99			1820.8
Capa	acitors in Service on 7/2/78	99	٠.		1820.8

				**		•	•	/	•	2102	Ω	^	40
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•			• •		T	• •		• .					

### PCB ANNUAL INVENTORY

## TRANSFORMERS

	Quantity	x	PCB's (Kg Each)	PCB's = (Kg Total)
1. Transformers in Service on 12/31/88	<b>0</b>			.0
2. Transformers Removed from Service in 1988	0			• 0
3. Transformers in Storage from Previous Year(s) on 1/1/88	0		-	0
**4. Transformers Transported Off-Site in 19:88	0			0 .
5. Transformers in Storage on 12/31/88 (2+3-4)	0		•	0
6. Transformers Transported in Previous Years	1		-	0.4
Total of 1 + 4 + 5 + 6	1			0.4
*Transformers in Service on 7/2/78	1			0.4

<sup>\*</sup>Based on 6/14/84 retest of PCB content on Transformer #25. Retest showed 112 ppm; previously used PCB content was 99 ppm.

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<sup>\*\*</sup>Transformer sold to Electric Equipment Company (Rochester, NY) on 10/29/84 for conversion to non-PCB transformer. Shipped 11/15/84.

#### PCB ANNUAL INVENTORY

## HEAT TRANSFER FLUIDS

		PCB's (Kg Total)
1.	Heat Transfer Fluid in Service on 12/31/88	*****
2.	Heat Transfer Fluid Removed from Service and Placed in Storage in 19 88	0
3.	Heat Transfer Fluid in Storage from Previous Year on 1/1/88	0
4.	Heat Transfer Fluid Transported from Storage to Disposal in 1988	0
5.	Heat Transfer Fluid in Storage on 12/31/88	0

PAGE 10 of 10